

-24-  
SEQUENCE LISTING

<110> Worman, Howard J.  
Mamiya, Naoto

<120> HCV E2 PROTEIN BINDING AGENTS FOR TREATMENT OF  
HEPATITIS C VIRUS INFECTION

<130> 0575/54805

<140> 09/407,430

<141> 1999-09-29

<160> 3

<170> PatentIn Ver. 2.1

<210> 1

<211> 168

<212> PRT

<213> human

<400> 1

Met Asn Ser Lys Gly Gln Tyr Pro Thr Gln Pro Thr Tyr Pro Val Gln  
1 5 10 15

Pro Pro Gly Asn Pro Val Tyr Pro Gln Thr Leu His Leu Pro Gln Ala  
20 25 30

Pro Pro Tyr Thr Asp Ala Pro Pro Ala Tyr Ser Glu Leu Tyr Arg Pro  
35 40 45

Ser Phe Val His Pro Gly Ala Ala Thr Val Pro Thr Met Ser Ala Ala  
50 55 60

Phe Pro Gly Ala Ser Leu Tyr Leu Pro Met Ala Gln Ser Val Ala Val  
65 70 75 80

Gly Pro Leu Gly Ser Thr Ile Pro Met Ala Tyr Tyr Pro Val Gly Pro  
85 90 95

Ile Tyr Pro Pro Gly Ser Thr Val Leu Val Glu Gly Gly Tyr Asp Ala  
100 105 110

Gly Ala Arg Phe Gly Ala Gly Ala Thr Ala Gly Asn Ile Pro Pro Pro  
115 120 125

Pro Pro Gly Cys Pro Pro Asn Ala Ala Gln Leu Ala Val Met Gln Gly



130

135

140

Ala Asn Val Leu Val Thr Gln Arg Lys Gly Asn Phe Phe Met Gly Gly  
145 150 155 160

Ser Asp Gly Gly Tyr Thr Ile Trp  
165

<210> 2

<211> 363

<212> PRT

<213> hepatitis C virus

<400> 2

Glu Thr His Val Thr Gly Gly Ser Ala Gly His Thr Val Ser Gly Phe  
1 5 10 15

Val Ser Leu Leu Ala Pro Gly Ala Lys Gln Asn Val Gln Leu Ile Asn  
20 25 30

Thr Asn Gly Ser Trp His Leu Asn Ser Thr Ala Leu Asn Cys Asn Asp  
35 40 45

Ser Leu Asn Thr Gly Trp Leu Ala Gly Leu Phe Tyr His His Lys Phe  
50 55 60

Asn Ser Ser Gly Cys Pro Glu Arg Leu Ala Ser Cys Arg Pro Leu Thr  
65 70 75 80

Asp Phe Asp Gln Gly Trp Gly Pro Ile Ser Tyr Ala Asn Gly Ser Gly  
85 90 95

Pro Asp Gln Arg Pro Tyr Cys Trp His Tyr Pro Pro Lys Pro Cys Gly  
100 105 110

Ile Val Pro Ala Lys Ser Val Cys Gly Pro Val Tyr Cys Phe Thr Pro  
115 120 125

Ser Pro Val Val Val Gly Thr Thr Asp Arg Ser Gly Ala Pro Thr Tyr  
130 135 140

Ser Trp Gly Glu Asn Asp Thr Asp Val Phe Val Leu Asn Asn Thr Arg  
145 150 155 160

Pro Pro Leu Gly Asn Trp Phe Gly Cys Thr Trp Met Asn Ser Thr Gly  
165 170 175

Phe Thr Lys Val Cys Gly Ala Pro Pro Cys Val Ile Gly Gly Ala Gly  
180 185 190

Asn Asn Thr Leu His Cys Pro Thr Asp Cys Phe Arg Lys His Pro Asp  
195 200 205

Ala Thr Tyr Ser Arg Cys Gly Ser Gly Pro Trp Ile Thr Pro Arg Cys  
210 215 220

Leu Val Asp Tyr Pro Tyr Arg Leu Trp His Tyr Pro Cys Thr Ile Asn  
225 230 235 240

Tyr Thr Ile Phe Lys Ile Arg Met Tyr Val Gly Gly Val Glu His Arg  
245 250 255

Leu Glu Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg Cys Asp Leu Glu  
260 265 270

Asp Arg Asp Arg Ser Glu Leu Ser Pro Leu Leu Leu Thr Thr Thr Gln  
275 280 285

Trp Gln Val Leu Pro Cys Ser Phe Thr Thr Leu Pro Ala Leu Ser Thr  
290 295 300

Gly Leu Ile His Leu His Gln Asn Ile Val Asp Val Gln Tyr Leu Tyr  
305 310 315 320

Gly Val Gly Ser Ser Ile Ala Ser Trp Ala Ile Lys Trp Glu Tyr Val  
325 330 335

Val Leu Leu Phe Leu Leu Leu Ala Asp Ala Arg Val Cys Ser Cys Leu  
340 345 350

Trp Met Met Leu Leu Ile Ser Gln Ala Glu Ala  
355 360

<210> 3

<211> 254

<212> PRT

<213> Hepatitis C virus

<400> 3

Gly Ala Lys Gln Asn Val Gln Leu Ile Asn Thr Asn Gly Ser Trp His  
1 5 10 15

Leu Asn Ser Thr Ala Leu Asn Cys Asn Asp Ser Leu Asn Thr Gly Trp  
20 25 30

Leu Ala Gly Leu Phe Tyr His His Lys Phe Asn Ser Ser Gly Cys Pro  
35 40 45

Glu Arg Leu Ala Ser Cys Arg Pro Leu Thr Asp Phe Asp Gln Gly Trp  
50 55 60

Gly Pro Ile Ser Tyr Ala Asn Gly Ser Gly Pro Asp Gln Arg Pro Tyr  
65 70 75 80

Cys Trp His Tyr Pro Pro Lys Pro Cys Gly Ile Val Pro Ala Lys Ser  
85 90 95

Val Cys Gly Pro Val Tyr Cys Phe Thr Pro Ser Pro Val Val Val Gly  
100 105 110

Thr Thr Asp Arg Ser Gly Ala Pro Thr Tyr Ser Trp Gly Glu Asn Asp  
115 120 125

Thr Asp Val Phe Val Leu Asn Asn Thr Arg Pro Pro Leu Gly Asn Trp  
130 135 140

Phe Gly Cys Thr Trp Met Asn Ser Thr Gly Phe Thr Lys Val Cys Gly  
145 150 155 160

Ala Pro Pro Cys Val Ile Gly Gly Ala Gly Asn Asn Thr Leu His Cys  
165 170 175

Pro Thr Asp Cys Phe Arg Lys His Pro Asp Ala Thr Tyr Ser Arg Cys  
180 185 190

Gly Ser Gly Pro Trp Ile Thr Pro Arg Cys Leu Val Asp Tyr Pro Tyr  
195 200 205

Arg Leu Trp His Tyr Pro Cys Thr Ile Asn Tyr Thr Ile Phe Lys Ile  
210 215 220

Arg Met Tyr Val Gly Gly Val Glu His Arg Leu Glu Ala Ala Cys Asn  
225 230 235 240

Trp Thr Arg Gly Glu Arg Cys Asp Leu Glu Asp Arg Asp Arg  
245 250